

Stereo Image – Object Detection Method

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Object: To provide a relatively effective and clear stereo image – object detecting method, especially suitable for a specific usage under relatively simple boundary conditions.

Composition: In the method of detecting an object and, if necessary, tracing its movement, by evaluation of a stereo image, a couple of structure-class image are formed of a couple of stereo images to be respectively photographed, and difference in luminance of selected surrounding picture elements is measured as digital values for each picture element, and these digital values are put together into respective digital value groups, and each coinciding group defines a particular structure class. Structure classes without luminance along the external polar line are rejected. For picture elements of other structure classes, corresponding disparity values are measured, and summed up in disparity histogram at a given frequency increment. The groups of picture elements within the range of respective accumulation points of histogram are interpreted as an object to be detected.

